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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,392	07/25/2005	Satoshi Matsumoto	046124-5345	8192
	7590 04/03/200 DDLE & REATH (DC)	EXAMINER		
1500 K STREE SUITE 1100		VERBITSKY, GAIL KAPLAN		
	N, DC 20005-1209	ART UNIT	PAPER NUMBER	
			2855	
			MAIL DATE	DELIVERY MODE
			04/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		App	Application No. Applicant(s)					
		10/	518,392	MATSUMOTO	MATSUMOTO ET AL.			
Office Action Summary			ıminer	Art Unit				
		Gail	l Verbitsky	2855				
Period fo	The MAILING DATE of this commun or Reply	ication appears	on the cover shee	t with the correspondence	address			
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn o period for reply is specified above, the maximum st- re to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE (of 37 CFR 1.136(a). nunication. atutory period will appl will, by statute, cause	OF THIS COMMU In no event, however, ma ly and will expire SIX (6) the application to become	JNICATION. ay a reply be timely filed MONTHS from the mailing date of thing the ABANDONED (35 U.S.C. § 133).				
Status								
	Responsive to communication(s) file	ad on 10 Januar	n/ 2008					
•		2b)∏ This actic	<u> </u>					
3)□		<i>'</i> —		natters prosecution as to t	the marite is			
٥/ك	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dienositi	ion of Claims	oo arraor zx par	to quayro, 1000	o.b. 11, 100 o.b. 210.				
· · ·								
•	Claim(s) <u>8-14</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) is/are allowed.							
· ·	Claim(s) <u>8-14</u> is/are rejected.							
•	Claim(s) is/are objected to. Claim(s) are subject to restrict	ation and/or aloc	ation requirement					
اـــا(٥	Claim(s) are subject to restrict	Mon and/or elec	ilon requirement.					
Applicati	ion Papers							
9)	The specification is objected to by th	e Examiner.						
10)	The drawing(s) filed on is/are:	a)∏ accepted	l or b)□ objected	to by the Examiner.				
	Applicant may not request that any obje	ction to the drawi	ng(s) be held in abe	eyance. See 37 CFR 1.85(a)	ı .			
	Replacement drawing sheet(s) including	the correction is	required if the draw	ving(s) is objected to. See 37	CFR 1.121(d).			
11)	The oath or declaration is objected to	by the Examin	er. Note the attac	ched Office Action or form	PTO-152.			
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/10/07,12/28/07. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 8-14 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2001071384 [hereinafter JP] in view of Black et al. (U.S. 5382770) [hereinafter Black] and EP 1063794 A2 [hereinafter EP].

JP discloses a device in the field of applicant's endeavor; teaches to weld two resin articles by using a laser, the first article 1 is non-absorbing light transmitting article.

JP does not teach the particular laser, as stated in claim 8 with the remaining limitations of claims 8-14.

Black discloses in Fig. 1 a device/ method in the field of applicant's endeavor comprising a laser, a blocking filter/ optical means (mirror) 18 diverging image component wavelengths through a filter 28 and an IR image lens 30 to form a thermal image/ temperature of the weld (entire col. 3 and col. 4, lines 1-23). The blocking filter is located between the laser and an object.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device disclosed by JP so as to make a

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thermal image of the weld, as taught by Black, in order to provide the operator with a usable data of the quality of welding process.

EP teaches a semiconductor laser and a filter, however, the filter does not cut off oscillation wavelengths of the laser but stabilizes is by filtering reflected and transmitted lights.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device disclosed by JP so as to replace the laser with a semiconductor laser, as taught by Watkins, because both of them are alternate types of laser usable in a welding process, and would perform the same function of producing required wavelengths signal, if one is replaced with another.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device disclosed by JP so as to add a filter in order to stabilize the oscillation frequency, as already taught by EP, in order to obtain more accurate beam irradiating.

With respect to the particular wavelength range, i.e., 1500 nm to 2800 nm): transmitting the particular wavelength range, absent any criticality, is only considered to be the "preferred" or "optimum" or "preferred" optical range that a person having ordinary skill in the art at the time the invention was made would have been able to determine using routine experimentation based, among other things, on the desired light (i.e., visible, infrared, etc.). See in re Boesch, 205 USPQ 215 (CCPA 1980).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made the device capable to operate the particular transmitting wavelengths, so as to enable the device with a desired light/ electromagnetic radiation.

The method steps will be met during the normal operation of the device stated above.

Response to Arguments

Applicant's arguments with respect to claims 8-14 have been considered but are moot in view of the new ground(s) of rejection.

Applicant states that Black is capable to pass visible and IR lights (as opposed to the instant invention?). This argument is not persuasive because Applicant, in the originally filed claims, did not claim otherwise. Also, in response to Applicant's argument that the reference includes this additional feature not required by Applicant's invention, it must be noted that the reference discloses the invention as claimed. The fact that it discloses additional structure (feature) not claimed by Applicant is irrelevant.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited in the PTO-892 and not mentioned above disclose related devices and methods.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gail Verbitsky whose telephone number is 571/272-2253. The examiner can normally be reached on 7:30 to 4:00 ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571/272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GKV

Gail Verbitsky Primary Patent Examiner, TC 2800

March 25, 2008

/Gail Verbitsky/ Primary Examiner, Art Unit 2855 Application/Control Number: 10/518,392 Page 6

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